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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,672	12/04/2003	Ichiro Tateishi	2003_1678A	5845
513	7590 09/30/2004		EXAM	INER
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800			COURSON, TANIA C	
			ART UNIT	PAPER NUMBER
	WASHINGTON, DC 20006-1021			

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
<b></b>	10/726,672	TATEISHI ET AL.
Office Action Summary	Examiner	Art Unit
	Tania C. Courson	2859
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If the period for reply specified above is less than thirty (30) day  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION.  CFR 1.136(a). In no event, however, may a station.  s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed or	1 <u></u> ,	•
2a) This action is <b>FINAL</b> . 2b) ∑	This action is non-final.	
3) Since this application is in condition for a		
closed in accordance with the practice u	nder <i>Ex parte Quayl</i> e, 1935 C.D	). 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-4 is/are pending in the application	ation.	
4a) Of the above claim(s) is/are w		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-4</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Ex	aminer.	
10)⊠ The drawing(s) filed on <u>04 December 200</u>	<u>03</u> is/are: a)⊠ accepted or b)□	] objected to by the Examiner.
Applicant may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by	the Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	·	
12)⊠ Acknowledgment is made of a claim for for a laim for for a)⊠ All b)□ Some * c)□ None of:	oreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).
1. Certified copies of the priority doc	uments have been received.	
2. Certified copies of the priority doct	uments have been received in A	pplication No
<ol><li>Copies of the certified copies of th</li></ol>	e priority documents have been	received in this National Stage
application from the International I	Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for	a list of the certified copies not	received.
Attachment(s)		
Notice of References Cited (PTO-892)		Summary (PTO-413)
P) $\square$ Notice of Draftsperson's Patent Drawing Review (PTO-98) $\boxtimes$ Information Disclosure Statement(s) (PTO-1449 or PTO		s)/Mail Date nformal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>04DEC03</u>.

6) Other: \_\_\_\_\_.

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Prior Art (applicant's admitted prior art, applicant's Fig. 5) in view of Chino et al. (US 6,293,022 B1).

The Prior Art discloses a rotation angle detector, including the following:

- a) a rotating member (applicant's admitted prior art, applicant's Fig. 5, rotating member 1), a detecting member rotating in conjunction with rotation of said rotating member (applicant's admitted prior art, applicant's Fig. 5, detecting member 2), a cover having a shaft support for supporting a shaft portion of said detecting member for rotation (applicant's admitted prior art, applicant's Fig. 5, cover 12), and sensor means for detecting rotation of said detecting member (applicant's admitted prior art, applicant's Fig. 5, sensor means 7).;
- b) wherein said rotating member rotates in cooperation with a steering wheel (applicant's admitted prior art, applicant's Fig. 5);
- c) wherein said sensor means has a magnet and magnetic sensor means (applicant's admitted prior art, applicant's Fig. 5, sensor means 7);

d) wherein said magnetic sensor means is a magneto resistive element (applicant's admitted prior art, applicant's Fig. 5, sensor means 7).

The Prior Art does not disclose a recess surrounding a shaft portion and a shaft support of a cover extending into a recess.

Chino et al. teach a rotation detector that consists of a recess surrounding a shaft portion (Fig. 15, recess 85 and column 9, lines 61-65). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the rotation angle detector of the Prior Art, so as to include a recess, as taught by Chino et al., so as to decrease interference with other parts of the detector.

With respect to claim 1: the shape of the cover, i.e., extending into a recess, absent any criticality, are only considered to be obvious modifications of the shape of the cover (Fig. 5, cover 12) disclosed by the Prior Art as the courts have held that a change in shape or configuration, without any criticality, is within the level of skill in the art as the particular shape claimed by Applicant is nothing more than one of numerous shapes that a person having ordinary skill in the art will find obvious to provide using routine experimentation based on its suitability for the intended use of the invention. See *In re Dailey*, 149 USPQ 47 (CCPA 1976). Therefore, one skilled in the art would change the shape of the cover in order to suit the needs of the user of the device.

## Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art cited on PTO-892 and not mentioned above disclose a rotation angle detector:

Setbacken et al. (US 6,642,508 B2)

Kraft et al. (US 6,530,715 B1)

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tania C. Courson whose telephone number is (571) 272-2239. The examiner can normally be reached on Monday-Friday from 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez, can be reached on (571) 272-2245.

The fax number for this Organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DIEGO F.F. GUTIERREZ

SUPERVISORY PATENT EXAMINER

**GROUP ART UNIT 2859** 

TCC

September 28, 2004